

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/935,255	08/22/2001	Ronald A. Weimer	MTI-31529	1208
31870	7590 08/02/2002			
WHYTE HIRSCHBOECK DUDEK S.C. 111 E. WISCONSIN AVE. SUITE 2100			EXAMINER	
			CHEN, JACK S J	
MILWAUKEE, WI 53202			ART UNIT	PAPER NUMBER
			2813	2
			DATE MAILED: 08/02/2002	. ک

Please find below and/or attached an Office communication concerning this application or proceeding.

m

Application No. 09/935,255 Applicant(s)

Examiner

Office Action Summary

Jack Chen

Art Unit 2813

Weimer

	The MAILING DATE of this communication appears	on the cover sheet with the corres	spondence address			
	for Reply					
THE N	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.					
mailing - If the p - If NO p - Failure - Any re	ions of time may be available under the provisions of 37 CFR 1.136 (a). In date of this communication, period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of patent term adjustment. See 37 CFR 1.704(b).	the statutory minimum of thirty (30) days will b and will expire SIX (6) MONTHS from the maili the application to become ABANDONED (35 U.)	ne considered timely. ng date of this communication. S.C. § 133}.			
Status	,					
1) 💢	Responsive to communication(s) filed on Aug 22,	2001	•			
2a) 🗌	This action is FINAL . 2b) 💢 This ac	tion is non-final.				
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposi	tion of Claims					
4) 💢	Claim(s) <u>1-72</u>	is/ar	e pending in the application.			
4	a) Of the above, claim(s)	is/a	re withdrawn from consideration.			
5)	Claim(s)		is/are allowed.			
6) 🗌	Claim(s)		is/are rejected.			
7) 🗆	Claim(s)		is/are objected to.			
8) 💢	Claims <u>1-72</u>	are subject to restri	ction and/or election requirement.			
Applica	ation Papers					
9) 🗌	The specification is objected to by the Examiner.					
10)	The drawing(s) filed onis/ar	e a) □ accepted or b)□ object	ed to by the Examiner.			
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on	is: a) \square approved	b) \square disapproved by the Examiner.			
	If approved, corrected drawings are required in reply	to this Office action.				
12)	The oath or declaration is objected to by the Exan	niner.				
Priority	under 35 U.S.C. §§ 119 and 120					
13)└┘		priority under 35 U.S.C. § 119(a	i)-(d) or (f).			
a) l	•					
	1. Certified copies of the priority documents ha		No			
	2. Certified copies of the priority documents hat3. Copies of the certified copies of the priority					
* 5	3. Copies of the certified copies of the priority application from the International Bur See the attached detailed Office action for a list of t	eau (PCT Rule 17.2(a)).	Titlis National Stage			
14)	Acknowledgement is made of a claim for domesti	c priority under 35 U.S.C. § 119	9(e).			
a) [The translation of the foreign language provision	nal application has been received	ı.			
15)	Acknowledgement is made of a claim for domesti	ic priority under 35 U.S.C. §§ 12	20 and/or 121.			
Attachr	nent(s)	_				
1)	lotice of References Cited (PTO-892)	4) Interview Summery (PTO-413) Pape				
	lotice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application	n (PTO-152)			
3) 🔲 li	nformation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Cther:				

Application/Control Number: 09/935,255 Page 2

Art Unit: 2813

DETAILED ACTION

Election/Restriction

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-57, drawn to a method of forming a semiconductor device, classified in

class 438, subclass 585.

II. Claims 58-72, drawn to semiconductor device, classified in class 257,

subclass 288+.

2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are

distinct if either or both of the following can be shown: (1) that the process as claimed can be

used to make other and materially different product or (2) that the product as claimed can be

made by another and materially different process (MPEP § 806.05(f)). In the instant case, the

device of Group II could be made in a materially different method from the method of Group I

such as, instead of (Regarding claim 1, lines 4-5) exposing the silicon layer to a nitrogen-

containing species to form a silicon nitride barrier layer, one can use chemical vapor deposition

(CVD) technique to form the silicon nitride barrier layer.

3. Because these inventions are distinct for the reasons given above and have acquired a

separate status in the art as shown by their different classification, restriction for examination

purposes as indicated is proper.

Application/Control Number: 09/935,255

Art Unit: 2813

4. Because these inventions are distinct for the reasons given above and the search required

Page 3

for Group I is not required for Group II, restriction for examination purposes as indicated is

proper.

5. Applicant is advised that the reply to this requirement to be complete must include an

election of the invention to be examined even though the requirement be traversed (37)

CFR 1.143).

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Jack Chen whose telephone number is (703) 308-5838. The examiner can

normally be reached on Monday-Friday (alternate Monday off) from 8:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri, can be reached on (703)306-2794.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)308-0956.

Jack Chen

July 31, 2002

Sarkchen